

# SPECIAL AIRWORTHINESS INFORMATION BULLETIN

Aircraft Certification Service  
Washington, DC



U.S. Department  
of Transportation

**Federal Aviation  
Administration**

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[www.faa.gov/certification/aircraft](http://www.faa.gov/certification/aircraft)

*This is information only. Recommendations aren't mandatory.*

## Introduction

This Special Airworthiness Information Bulletin advises **Eaton Aerospace (Aeroquip)** authorized distributors and their customers who have purchased **bulk hose material**, P/N 303-12 (3/4-inch outside diameter), that hose assemblies manufactured using Eaton Aeroquip lot number 1102096, manufactured in the third quarter of 2004 (3Q04), should be removed from service.

## Background

Two recent Raytheon (Beech) King Air (E-90, F-90) twin engine turbo prop airplanes experienced low engine oil pressure. One incident involved an in-flight engine shutdown. Both airplanes returned and landed safely. All four turbine engine lubrication systems were severely contaminated with deteriorated hose material. In each case the engine oil was BP 2380 Turbine Oil or Exxon 2380 Turbine Oil. Flight time on the affected hoses was approximately 7 to 8 hours total time-in-service since installation.

The hose manufacturer determined the affected hoses were from a single lot manufactured in the third quarter of 2004. The lot code is 1102996. Subsequent testing of hoses soaked in 2380 Turbine Oil for 70 hours at 257 degrees Fahrenheit exhibited delamination after 4 hours (static fluid flow condition). Failed hoses returned from the field exhibited severe delamination within 2 hours in service. Hoses from other manufacturing lots exhibited no delamination

when similarly tested.

## Recommendation

We recommend that distributors with bulk hose or operators with hose assemblies identified in Eaton Corp SB 303-12-1, dated, 10/21/04, do the following:

**If not previously done, for twin or single reciprocating and turbine engine airplanes or helicopters that have had Aeroquip engine oil pressure hose assemblies manufactured using bulk hose, P/N 303-12 (3/4-inch outside diameter), installed on or after August 10, 2004, with markings of:**

**AEROQUIP 303-12 1500 PSIG MADE IN  
USA MIL-DTL-8794-12-3Q04-54412**

**Prior to further flight determine if the hose assembly was made from the lot number 1102096. If it was made from lot number 1102096 or if unable to determine the lot number, remove any such hose prior to further flight. Return any 303-12 bulk material or applicable hose assemblies manufactured from lot number 1102096 to Eaton Corporation.**

## For Further Information Contact

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